

**Amendments to the Claims:**

**1. (Cancelled)**

**2. (Currently Amended)** The surfactant composition of claim [[1]] 29, characterized in that the surfactant composition comprises

- (A) 5 to 60 wt%, referring to components (A) and (B), of one or more gemini surfactant(s) and,
- (B) referring to the remainder, based on the total of components (A) and (B), one or more co-amphiphile(s).

**3. (Currently Amended)** The surfactant composition according to any of claims [[1 or]] 2 or 50, further comprising

- (C) at least 0.1 wt% water, referring to the total composition.

**4. (Currently Amended)** A surfactant composition according to any of claims [[1 or]] 2 or 50, further comprising

- (D) at least 0.1 wt% of one or more oil component(s), referring to the total composition.

**5. (Cancelled)**

**6. (Currently Amended)** A surfactant composition according to any of claims [[1 or]] 2 or 50 in the form of an emulsion, characterized in that the co-amphiphile is present in solid form at 25°C.

7. (Currently Amended) A surfactant composition according to any of claims [[1 or]] 2 or 50 in the form of a dispersion, characterized in that the co-amphiphile is present in liquid form at 25°C.
8. (Currently Amended) A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that at least two different co-amphiphiles are employed.
9. (Currently Amended) A surfactant composition according to any of claims [[1 or]] 2 or 50, wherein at least one co-amphiphile is
- a C<sub>6</sub>- to C<sub>40</sub>- alcohol,
  - a mono-, di-, and triglyceride of C<sub>6</sub>- to C<sub>22</sub>-carboxylic acid, and
  - mixtures thereof.
10. (Currently Amended) A surfactant composition according to claim 9, characterized in that the surfactant composition comprises
- 30 to 50 wt% of C<sub>6</sub>- to C<sub>40</sub>- alcohol,
  - 30 to 50 wt% of a mono-, di-, and triglyceride of a C<sub>6</sub>- to C<sub>22</sub>-carboxylic acid, and
  - mixtures thereof,
- each referring to the gemini surfactant/co-amphiphile(s) composition.
11. (Currently of Amended) A surfactant composition according to any of claims [[1 or]] 2 or 50 in form an emulsion, characterized in that the surfactant composition can be produced by a method (phase transfer temperature (PTT) method), which includes at least the following step:
- combining

- (a) a composition (a) comprising the gemini surfactant (A) wherein the composition has a temperature X, with
  - (b) a composition (b) comprising the co-amphiphile (B) wherein the composition has a temperature Y,
- the temperature Y being greater than temperature X.

12. **(Original)** The surfactant composition of claim 11, characterized in that the temperature Y is not more than 15°C higher than the critical phase transfer temperature of the surfactant in composition (b).

13. **(Original)** Surfactant compositions according to claim 12, characterized in that the temperatures X and Y are different by at least 3°C.

14. **(Currently Amended)** A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant comprises nitrogen atoms at the link between spacer, hydrophilic, and hydrophobic group.

15. **(Currently Amended)** A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized that the gemini surfactant comprises an amine- or amide-group-containing spacer with 1 to 12 carbon atoms.

16. **(Original)** A surfactant composition according to claim 14, characterized in that the hydrophobic double group comprises a C<sub>6</sub>- to C<sub>24</sub>-hydrocarbon residue each and/or the hydrophilic double (head) group comprises an at least monoalkoxylated residue with a sulfonic acid-, carboxylic acid-, phosphonic acid-, polyalcohol-, or polyalkylene oxide group, or salt thereof.

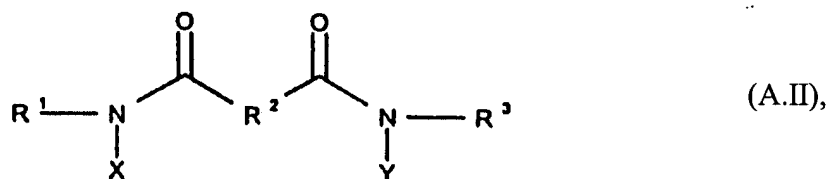
17. (Currently Amended)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the surfactant composition comprises 0.01 to 30 wt%, [preferably 0.1 to 6 wt% of the components (A) and (B), referring to the total composition.]

18. (Cancelled)

19. (Currently Amended)

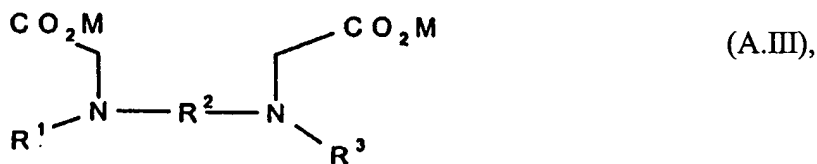
A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (A.II).



wherein the substituents have the meanings as defined by the general formula (A.I).

20. (Currently Amended)

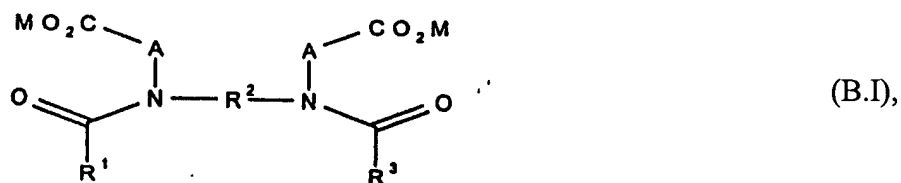
A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (A.III).



wherein the substituents have the meanings as defined by the general formula (A.I).

21. (Currently Amended)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (B.I).

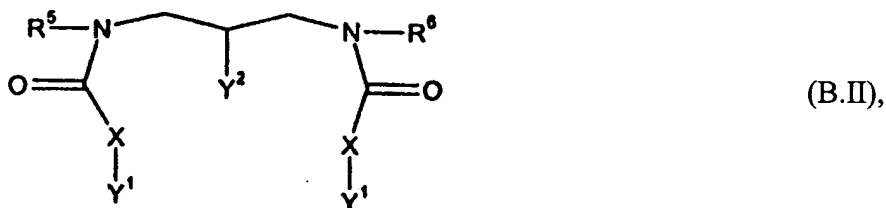


wherein the substituents have the following meanings:

- $\text{R}^1, \text{R}^3$   $\text{C}_5$ - to  $\text{C}_{25}$ -alkyl group that can be branched, unbranched, saturated, or unsaturated as far as not adjacently diunsaturated;
- $\text{R}^2$   $\text{C}_1$ - to  $\text{C}_{12}$ -alkylene
- $\text{A}$   $\text{CHR}^4$ ,  $\text{CH}_2$ ,  $\text{C}_2\text{H}_4$ ,  $\text{C}_3\text{H}_6$ ,  $\text{C}_4\text{H}_8$ ;
- $\text{R}^4$  aminocarboxylic acid radical, and
- $\text{M}$  alkali, (alkyl)ammonium, alkanol ammonium, H, or 1/2 alkaline earth.

22. (Currently Amended)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (B.II).



wherein the substituents have the meanings as defined by the general formula (B.I), and

$R^5$ ,  $R^6$  represent a  $C_6$ - to  $C_{36}$ -alkyl group that can be branched, unbranched, saturated, or unsaturated as far as not adjacently diunsaturated;

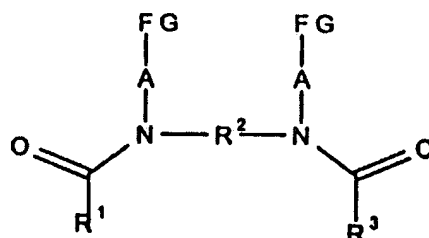
X is an alkylene- or alkenylene group having from 1 to 6 carbon atoms, which may be substituted with a hydroxyl group or a sulfonic acid group or a carboxyl group;

$Y^1$  is a sulfonate- or sulfate group or a carboxyl group, and

$Y^2$  represents a hydroxyl group, a sulfuric acid residue, or  $-O-(CO)X-COOH$ .

23. (Currently Amended)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (B.III).

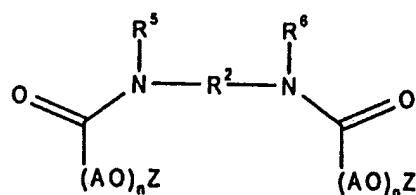


(B.III),

wherein the substituents have the meanings as defined by the general formula (B.1) of, and FG represents  $-COOM$  or  $-SO_3M$ .

24. (Currently Amended)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (B.IV).



(B.IV),

wherein the substituents have the meanings as

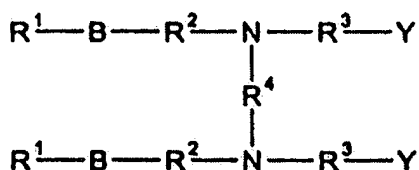
defined by the general formulas (B.1) and (B.11) and

**AO** represents alkylene oxide units wherein  $n = 1$  to 20, and

**Z** is  $-\text{SO}_3\text{M}$ ,  $-\text{C}_2\text{H}_4\text{SO}_3\text{M}$ ,  $-\text{C}_3\text{H}_6\text{SO}_3\text{M}$ ,  $\text{P}(\text{O})(\text{OM})_2$ ,  $-\text{CH}_2-\text{COOM}$ , or  $\text{C}_2\text{H}_4-\text{COOM}$ .

25. (**Currently Amended**)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (C.I).



(C.I),

wherein the substituents have the following meanings:

**R<sup>1</sup>** C<sub>5</sub>- to C<sub>25</sub>-alkyl group that can be branched, unbranched, saturated, or unsaturated as far as not adjacently diunsaturated, hydroxy-substituted or perfluorinated;

**R<sup>2</sup>** C<sub>1</sub>- to C<sub>12</sub>-alkylene or hydroxy-substituted derivatives thereof;

**B** an amide group, a carboxyl group, or a polyether group;

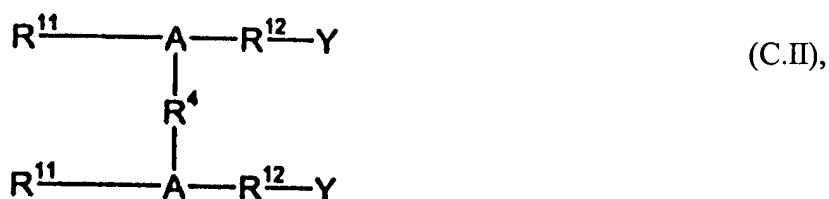
**R<sup>5</sup>** C<sub>1</sub>,- to C<sub>4</sub>-alkyl, hydroxy-substituted alkyl, or H;

**R<sup>6</sup>** C<sub>2</sub>- to C<sub>4</sub>-alkylene;

- x a number from 1 to 20;
- R<sup>3</sup> C<sub>1</sub>- to C<sub>12</sub>-alkyl or hydroxy-substituted derivatives thereof, R<sup>7</sup>-D-R<sup>7</sup>, or a polyether group;
- R<sup>7</sup> C<sub>1</sub>- to C<sub>6</sub>- alkylene or hydroxy-substituted derivatives thereof;
- D -O-, -S-, -N(R<sup>8</sup>)-;
- R<sup>4</sup> alkylene or alkylaryl having from 1 to 12 carbon atoms, the hydroxy-substituted derivatives, or R<sup>9</sup>-D<sup>1</sup>-R<sup>9</sup> ;
- R<sup>8</sup> C<sub>1</sub>- to C<sub>12</sub>-alkyl or hydroxy-substituted alkyl, H, or R<sup>9</sup>-D<sup>1</sup>-R<sup>9</sup>;
- R<sup>9</sup> C<sub>1</sub>- to C<sub>6</sub>-alkylene, hydroxy-substituted derivatives thereof, or aryl;
- D<sup>1</sup> -O-, -S-, -SO<sub>2</sub>-, -C(O)-, [-O(R<sup>7</sup>-O)<sub>x</sub>-], (R<sup>10</sup>)<sub>t</sub>[N(R<sup>10</sup>)]<sub>z</sub>, or aryl;
- R<sup>10</sup> C<sub>1</sub>- to C<sub>12</sub>-alkyl, hydroxy-substituted alkyl, H, or aryl;
- t, z are independently a number from 1 to 4; and
- Y is independently -SO<sub>3</sub>H, -O-SO<sub>3</sub>H, -OP(O)(OH)<sub>2</sub>, -P(O)(OH)<sub>2</sub>, -COOH, -CO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>-SO<sub>3</sub>H, or the salts thereof.

26. (Currently)  
Amended)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (C.II).



wherein the substituents have the meanings as defined by the general formula (C.I), and

R<sup>11</sup> is a C<sub>5</sub>- to C<sub>23</sub>-alkyl group that can be branched, unbranched, saturated, unsaturated as far as not adjacently diunsaturated,



hydroxy-substituted, or perfluorinated or  $R^{14}-B-R^2$ ;

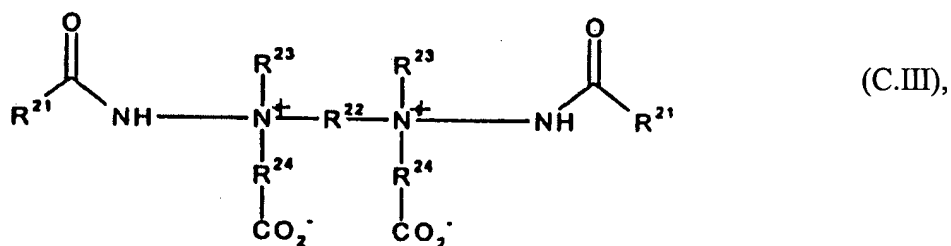
$R^{14}$  is a  $C_1$ - to  $C_{12}$ -alkyl group that can be branched, unbranched, saturated, unsaturated as far as not adjacently diunsaturated, or the hydroxy-substituted derivatives;

$R^{12}$  means a  $C_1$ - to  $C_{12}$ -alkylene group that can be branched, unbranched, saturated, unsaturated as far as not adjacently diunsaturated, the hydroxy-substituted derivatives, or an amide group, a carboxyl group, a polyether group; and

A is  $-CR^6=$  or  $-N=$ , if whenever A is equal to  $-N=$ ,  $R^{11}$  represents  $R^{14}-B-R^2$ .

27. (Currently Amended)

A surfactant composition according to any of claims [[1 or]] 2 or 50, characterized in that the gemini surfactant has the general formula (C.III).



wherein the substituents have the meanings as defined by the general formulas (C.I) and (C.II) and

$R^{21}$  represents a  $C^5$ - to  $C^{23}$ -alkyl group that can be branched, unbranched, saturated, or unsaturated as far as not adjacently diunsaturated;

$R^{22}$ ,  $R^{24}$  are  $C_1$ - to  $C_6$ -alkylene;

$R^{23}$  is methyl, ethyl, propyl, or a polyether group.

28-31. (Cancelled)

32. **(Currently Amended)** The surfactant composition any of claims [[1]] 2 or 50 wherein said one or more gemini surfactants are present in an amount of from 10 to 60 wt%.
33. **(Currently Amended)** The surfactant composition any of claims 2 or 50 wherein said one or more gemini surfactants are present in an amount of from 10 to 50 wt%.
34. **(Currently Amended)** The surfactant composition any of claims [[5]] 2 or 50 wherein said alcohol is a C<sub>8</sub>- to C<sub>24</sub>- alcohol.
35. **(Currently Amended)** The surfactant composition of claim [[5]] 2 or 50 wherein said carboxylic acid is a C<sub>8</sub>- to C<sub>22</sub>-carboxylic acid.
36. **(Original)** The surfactant composition of claim 8 wherein 3 to 5 different co-amphiphiles are employed.
37. **(Original)** The surfactant composition of claim 9 wherein said alcohol is a C<sub>8</sub>- to C<sub>24</sub>- alcohol.
38. **(Original)** The surfactant composition of claim 10 wherein said alcohol is a C<sub>8</sub>- to C<sub>24</sub>- alcohol.
39. **(Original)** The surfactant composition of claim 11 wherein said composition (a) contains water.
40. **(Original)** The surfactant composition of claim 11 wherein said composition (b) contains an oil component.
41. **(Original)** The surfactant composition of claim 13 wherein the temperatures X and Y are different by at least 5°.

42. **(Original)** The surfactant composition of claim 17 wherein the surfactant composition comprises 0.1 to 6 wt% of the components (A) and (B), referring to the total composition.
43. **(Original)** The surfactant composition of claim 24 wherein said alkylene oxide units is selected from the class consisting of ethylene glycol-, propylene glycol-, butylene glycol ether units, and mixtures thereof.
44. **(Original)** The surfactant composition of claim 24 wherein said alkylene oxide units comprise a single species.
45. **(Original)** The surfactant composition of claim 24 wherein said alkylene oxide units comprise multiple species.
46. **(Original)** The surfactant composition of claim 45 wherein said multiple species are randomly arranged.
47. **(Original)** The surfactant composition of claim 45 wherein said alkylene oxide units are arranged in block form.
48. **(Cancelled)**
49. **(Previously Presented)** A surfactant composition according to Claim 17 characterized in that the surfactant composition comprises 0.1 to 6 wt.% of the components (A) and (B), referring to the total composition.
50. **(New)** A surfactant composition comprising  
(A) 1 to 70 wt%, preferably 10 to 60 wt%, referring to components (A) and (B), of at least one gemini surfactant and,

(B) referring to the remainder, based on the total of components (A) and (B), at least one co-amphiphile(s) having an HLB value of less than or equal to 6,

wherein the gemini surfactant is a surface active compound comprising at least two surfactant units, one of said units being at least one hydrophilic head group and one of said units being at least one hydrophobic group, said units being interlinked through at least one spacer in proximity to the head group, wherein the link between spacer, hydrophilic group, and hydrophobic group is selected from the group consisting of an amine group, an amide group or mixtures thereof, and

wherein the co-amphiphile comprises a mixture of at least two different co-amphiphiles selected from at least two different groups (a) to (d):

(a) one or more long-chain alcohol(s):

C<sub>6</sub>- to C<sub>40</sub>- alcohol, preferably C<sub>8</sub>- to C<sub>40</sub>- alcohol

(b) one or more long-chain acid(s):

C<sub>6</sub>- to C<sub>24</sub>- carboxylic acid,

(c) one or more ester(s)/partial ester(s) of a polyol with one or more mono- or polycarboxylic acid(s):

- sorbitan (C<sub>6</sub>- to C<sub>22</sub>-) ester,
- methylglucoside (C<sub>6</sub>- to C<sub>22</sub>-) ester,
- sugar (C<sub>6</sub>- to C<sub>22</sub>-) ester,
- mono-, di-, and triglyceride of a C<sub>6</sub>- to C<sub>22</sub>- carboxylic acid,
- derivative (esterified with lactic acid or citric acid) of the mono- and diglycerides of C<sub>6</sub>- to C<sub>22</sub>- carboxylic acid,
- polyglycerol (C<sub>6</sub>- to C<sub>22</sub>-) ester,
- vitamin ester,

(d) and the following additional co-amphiphiles:

- salicylic acid,
- benzoic acid and/or
- lecithin.